



Infection Control User Manual

Version 0.2

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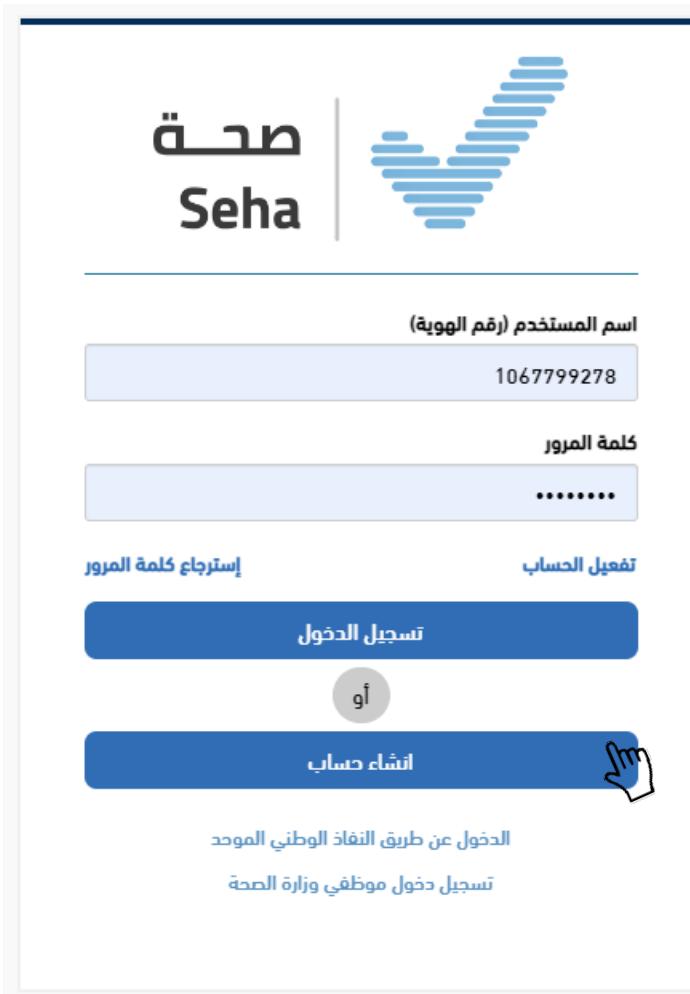
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HESN+ System

HESN (+) system is specialized in providing services to management and surveillance the epidemiological disease outbreaks in the Kingdom of Saudi Arabia, focusing on the following main units: Investigations Unit, Laboratories Unit, Infection Control Unit, BICSL License Unit, Blood Banks Unit, and Ports Unit. This guide explains the mechanism of using the HESN+ system for the Infection Control Unit.

Signing in

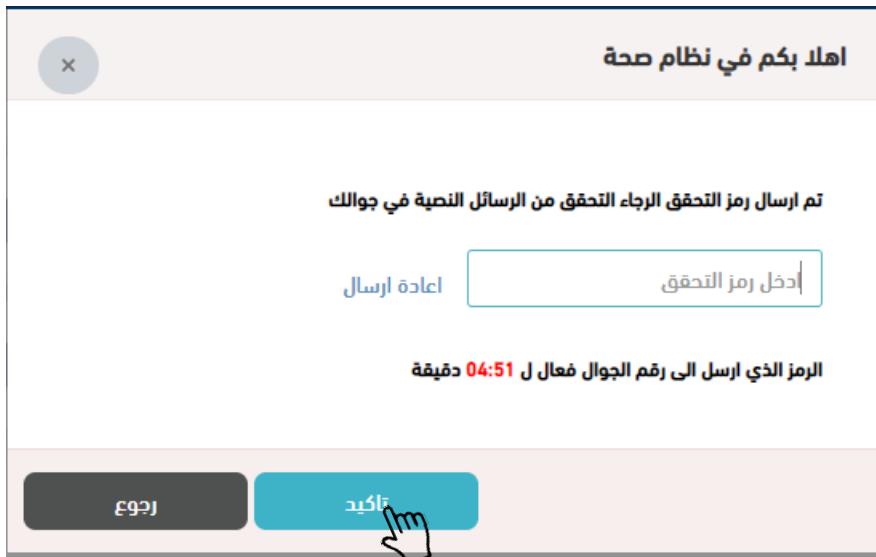
1. The user signs in to the Seha platform and selects the appropriate role with the permission assigned to them.



2. The user will see the permissions assigned to them, and can then select the Infection Control permission.



3. An OTP code is sent to the user's mobile number to verify their identity.



4. Next, the Seha platform shows with its services, the user selects “Services” and then the “HESN Plus” service.



Note: HESN Plus service shows when the user acquires a role that has permission to HESN services.

5. Afterwards, the Infection Control Unit icon is selected.



Infection Control Unit Roles in HESN

1. HESN Infection Control User: Is the employee who works in the health facility and enters the Surveillance information
2. System Manager for a Medical Facility: Is the system administrator at the level of their medical facility

3. Directorate: Is the administrative director of the directorate they are in charge of, and is able to access all data of the medical facilities that fall under their directorate.
4. System Administrator: Is the system administrator for Infection Control and can access data of all medical directorates and facilities.

Submitting a Request to the Infection Control Unit

No facility can use the Infection Control Unit without first submitting a request through HESN+ and having it approved by the Infection Control Unit Administration. The application process is as follows:

1. Click on the Infection Control Unit icon and then on the “Submit Request” button
2. The concerned facility fills in the facility’s details on Intensive Care Units (ICUs), Procedures, and Infection Control Administration, and then submits the application. After submitting the application, it will be sent to the Infection Control Administration at the Ministry of Health for review.

Reviewing a Facility’s Request

The system administrator user of the Infection Control Unit can view the requests of health facilities submitted through the requests page, and by clicking on the request number, they can preview the facility’s request details.

Returning A Request

The system administrator can return a request to the health facility to complete or correct some data as deemed appropriate, in accordance with the standards of the Infection Control Unit. This can be done by clicking the “Return Request” button and adding notes on the edits required to be made by the health facility.

Rejecting A Request

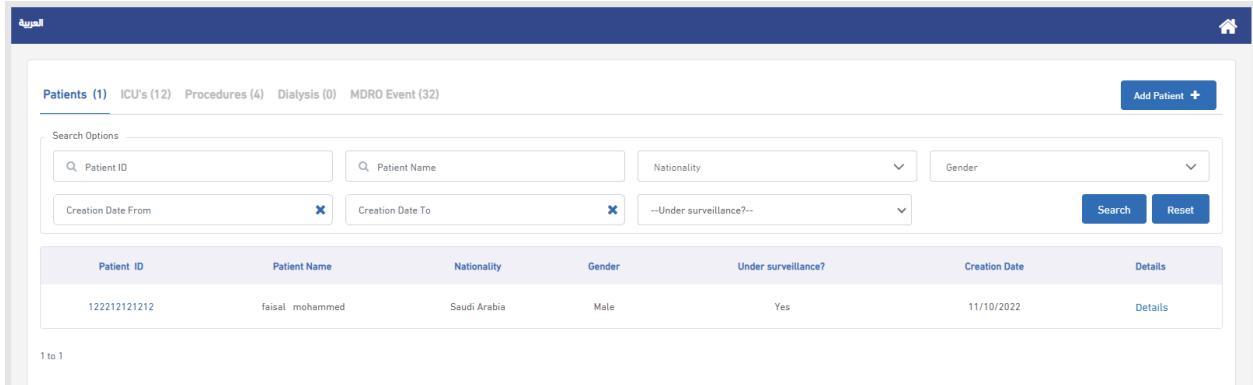
The system administrator can reject the request of a health facility, as deemed appropriate, in accordance with the standards of the Infection Control Administration. This can be done by clicking the “Reject Request” button and adding notes on the rejection of the request.

Approve A Request

The system administrator can approve the request of the health facility, as deemed appropriate, in accordance with the standards of the Infection Control Administration. After approving the request, the health facility will be immediately able to use the Infection Control Unit on the HESN+ platform.

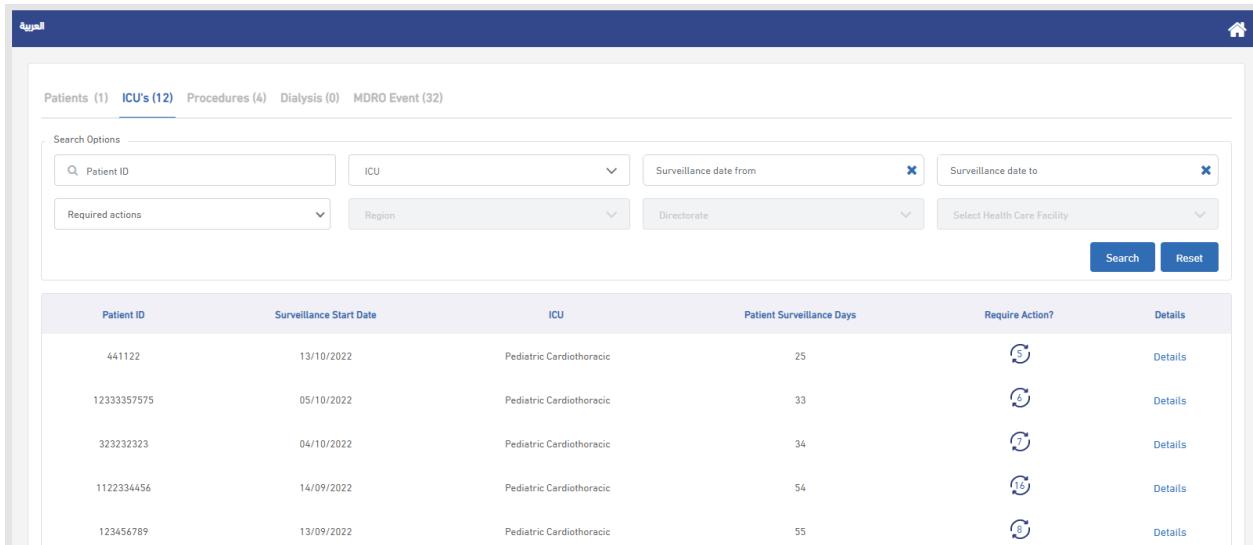
Homepage

Once the application has been approved by the system administrator from the Infection Control Unit Administration, the facility can directly access the facility's homepage and view all of its data.



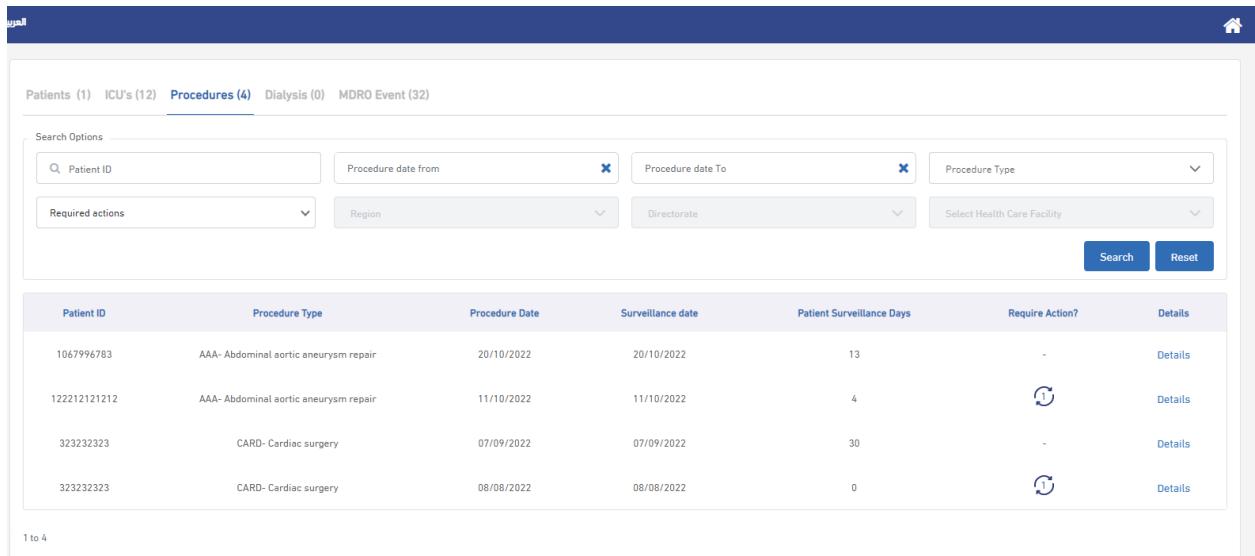
Patient ID	Patient Name	Nationality	Gender	Under surveillance?	Creation Date	Details
122212121212	faisal mohammed	Saudi Arabia	Male	Yes	11/10/2022	Details

Figure 1 Homepage showing the patient list.



Patient ID	Surveillance Start Date	ICU	Patient Surveillance Days	Require Action?	Details
441122	13/10/2022	Pediatric Cardiothoracic	25		Details
1233357575	05/10/2022	Pediatric Cardiothoracic	33		Details
323232323	04/10/2022	Pediatric Cardiothoracic	34		Details
1122334456	14/09/2022	Pediatric Cardiothoracic	54		Details
123456789	13/09/2022	Pediatric Cardiothoracic	55		Details

Figure 2 Homepage showing the list of ICU Surveillances.



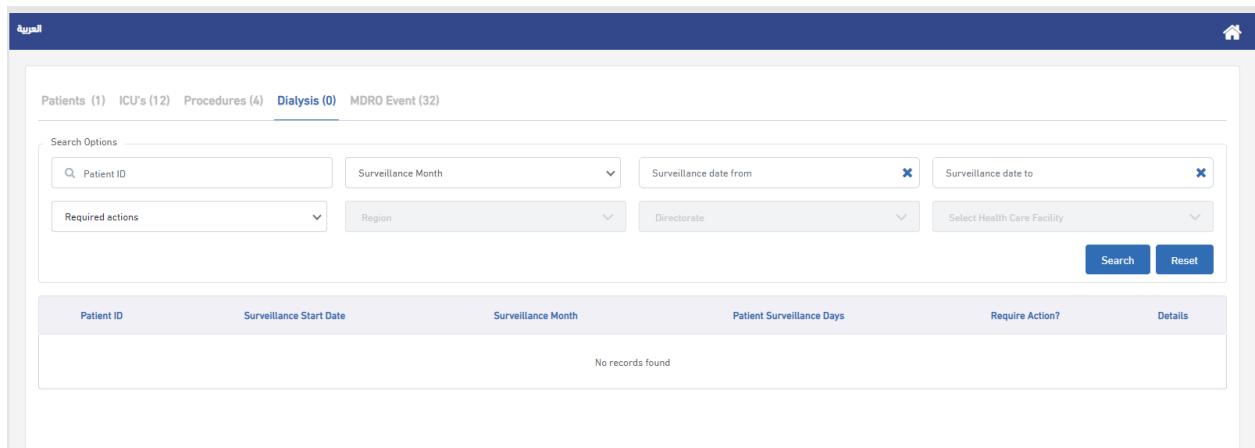
Patients (1) ICU's (12) **Procedures (4)** Dialysis (0) MDRO Event (32)

Search Options

Patient ID	Procedure Type	Procedure Date	Surveillance date	Patient Surveillance Days	Require Action?	Details
1067996783	AAA- Abdominal aortic aneurysm repair	20/10/2022	20/10/2022	13	-	Details
122212121212	AAA- Abdominal aortic aneurysm repair	11/10/2022	11/10/2022	4		Details
323232323	CARD- Cardiac surgery	07/09/2022	07/09/2022	30	-	Details
323232323	CARD- Cardiac surgery	08/08/2022	08/08/2022	0		Details

1 to 4

Figure 3 Homepage showing the list of SSI Surveillances.

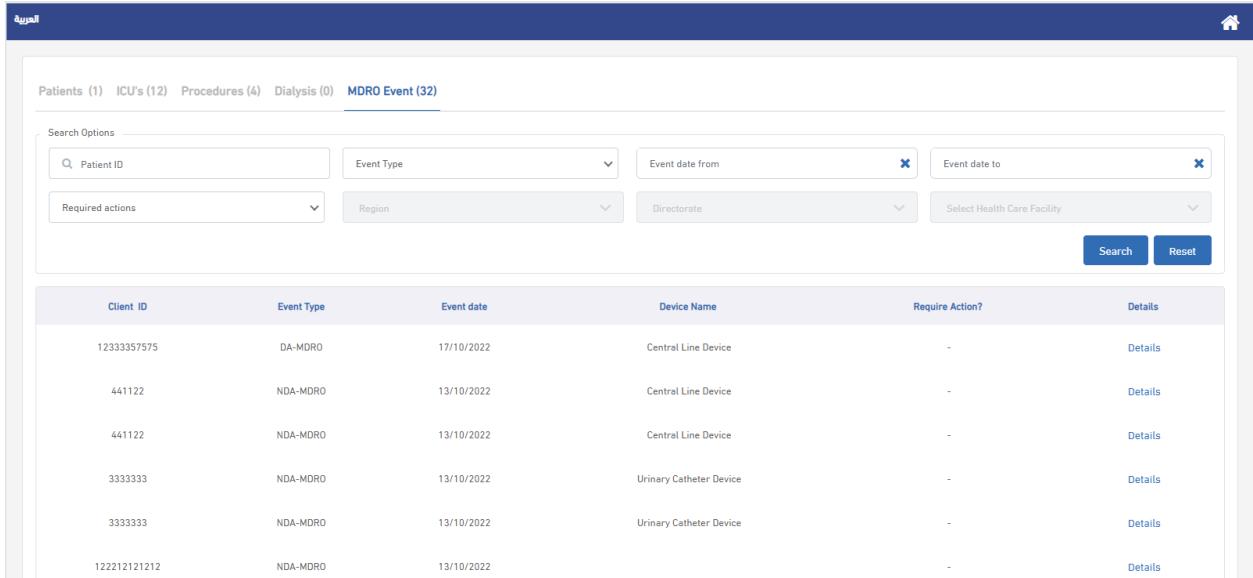


Patients (1) ICU's (12) Procedures (4) **Dialysis (0)** MDRO Event (32)

Search Options

Patient ID	Surveillance Start Date	Surveillance Month	Patient Surveillance Days	Require Action?	Details
			No records found		

Figure 4 Homepage showing the list of dialysis session Surveillances.

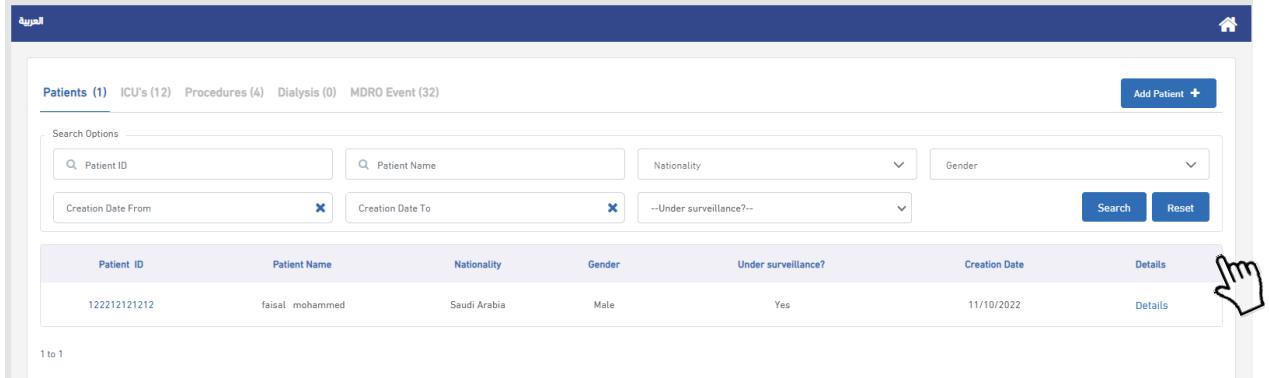


Client ID	Event Type	Event date	Device Name	Require Action?	Details
12333357575	DA-MDRO	17/10/2022	Central Line Device	-	Details
441122	NDA-MDRO	13/10/2022	Central Line Device	-	Details
441122	NDA-MDRO	13/10/2022	Central Line Device	-	Details
3333333	NDA-MDRO	13/10/2022	Urinary Catheter Device	-	Details
3333333	NDA-MDRO	13/10/2022	Urinary Catheter Device	-	Details
122212121212	NDA-MDRO	13/10/2022		-	Details

Figure 5 Homepage showing the list of MDRO events.

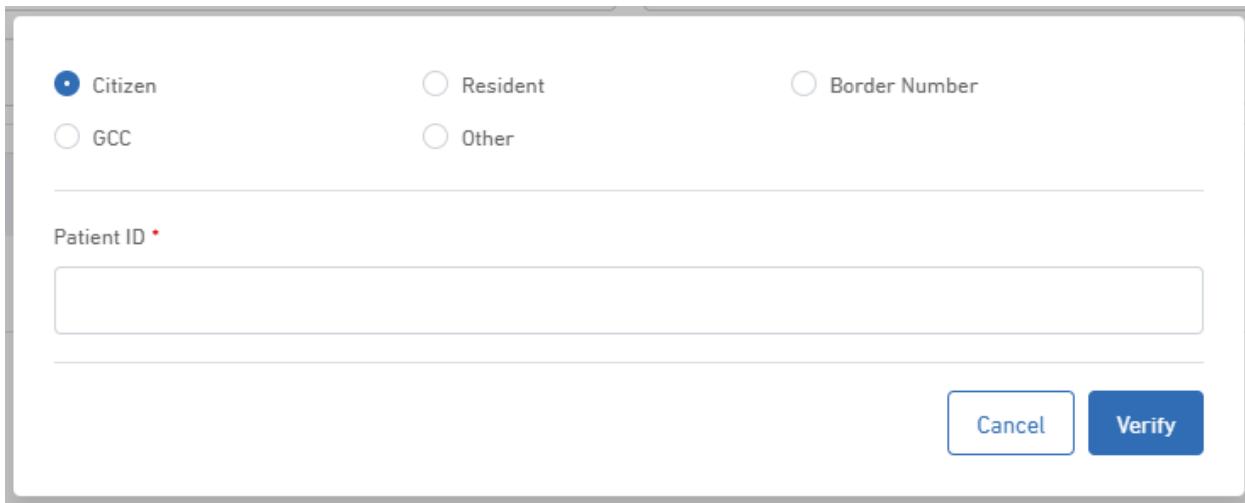
Adding A Patient

In order for the health facility to start Surveillance, the facility must first add a patient, and then start a Surveillance for them. The process for adding a patient as follows:



Patient ID	Patient Name	Nationality	Gender	Under surveillance?	Creation Date	Details
122212121212	faisal mohammed	Saudi Arabia	Male	Yes	11/10/2022	Details

By clicking the “Add Patient” button, a pop-up window will show asking for the patient's identification number:



Citizen Resident Border Number
GCC Other

Patient ID *

Cancel Verify

- **Citizen:** Requires the Saudi citizen's ID number (must start with "1" and consist of 10 digits)
- **Resident:** Requires the residence permit number (must start with "2" and consist of 10 digits)
- **Border number:** Requires the border number (must start with "3", "4" or "5" and consist of 10 digits)
- **GCC:** Requires the GCC number (the maximum number of digits is 25 digits)
- **Others:** Unclassified identities

After entering the information, the user clicks the "Verify" button, and details will be retrieved based on the number entered. The user is then redirected to the patient information page to fill the rest of the information.

If the patient's information was previously added on the system, the user can search for the patient's information on the homepage using their registered ID number, without having to click the "Add Patient" button.

Citizen
 Resident
 Border Number

GCC
 Other

Patient ID *

Date of Birth *

Hijri

X

i The patient is existed, please clicks here to go to patient information page.

Full Name	Date of Birth
faisal mohammed	9 Oct 2002

Cancel
Verify

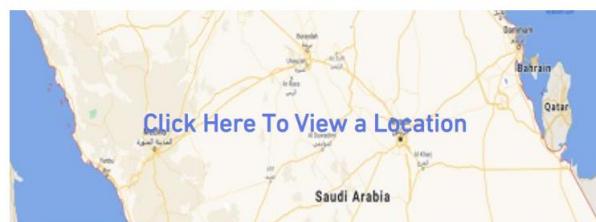
By clicking the save button, the patient's information will be saved and the user will be redirected to the patient Surveillance page.

Patient Information
Patient File Status: Active
Edit Patient Information

Patient information	122212121212		
Patient name			
faisal mohammed			
Patient Type	Birth Date	Birth Date (Hijri)	Gender
Other	2002-10-09	1423-08-03	Male
Age	Martial Status	Phone Number	Additional Phone Number
20	Single	966545454345	-
Patient Nationality	Place Of Birth	Occupation	Email Address
Saudi Arabia	Saudi Arabia	STUDENT	-

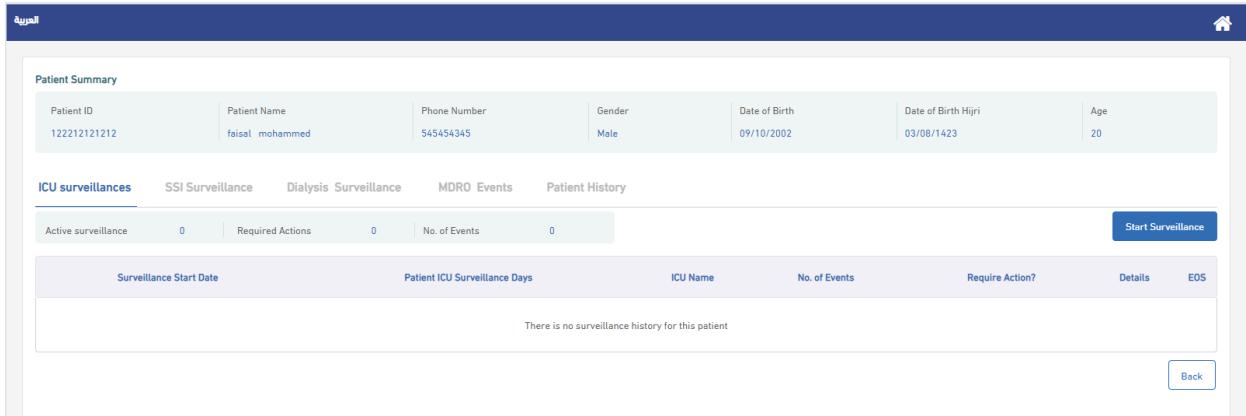
Address

Region	Directorate	District
-	-	-
Street Name		
-		
Building Number	Unit Number	Zip Code
-	-	-
Address		
-		


Click Here To View a Location

Patient Surveillance Page

After adding the patient, the facility can view the patient's Surveillance file, and set up Surveillances for this patient



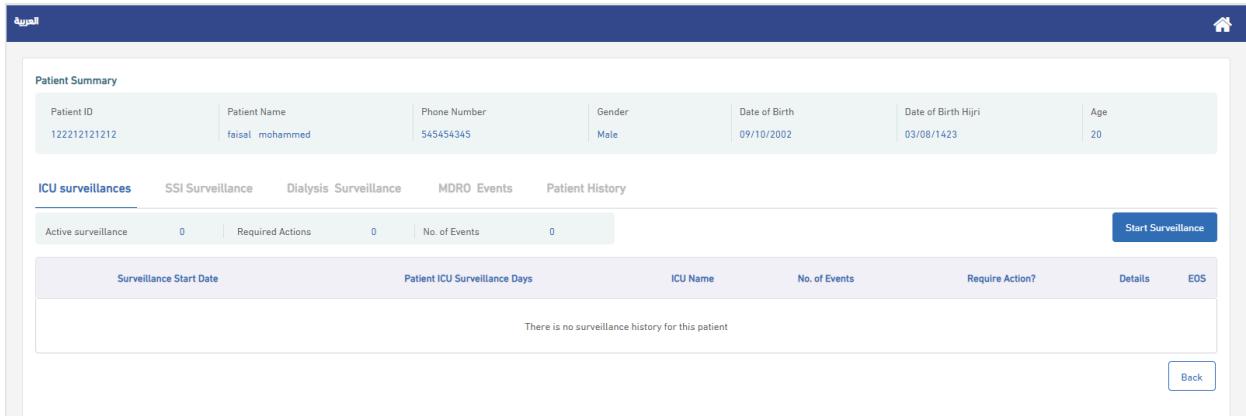
This screenshot shows the Patient Surveillance Page for a patient named 'faisal mohammed'. The page includes a 'Patient Summary' table with details like Patient ID (1222121212), Patient Name, Phone Number, Gender (Male), Date of Birth (09/10/2002), Date of Birth Hijri (03/08/1423), and Age (20). Below the summary is a navigation bar with tabs: 'ICU surveillances' (selected), 'SSI Surveillance', 'Dialysis Surveillance', 'MDRO Events', and 'Patient History'. Under the 'ICU surveillances' tab, there is a sub-section for 'Active surveillance' showing 0 events, 0 required actions, and 0 no. of events. A 'Start Surveillance' button is located in this section. The main table below shows surveillance history for this patient, with a note: 'There is no surveillance history for this patient'. A 'Back' button is at the bottom right.

Starting A Surveillance

On the patient's page, the user will be shown a button to create a Surveillance, and by clicking this button, the user will be redirected to the page where they can start a Surveillance and fill in the required information.

Intensive Care Unit (ICU) Surveillance

On the ICU Surveillance page, the user clicks the “Create Surveillance” button which will redirect them to the Surveillance setup page.



This screenshot shows the ICU Surveillance Page for the same patient. The layout is identical to the Patient Surveillance Page, with a 'Patient Summary' table, a navigation bar with the 'ICU surveillances' tab selected, and a table showing surveillance history. The note 'There is no surveillance history for this patient' is present. A 'Start Surveillance' button is located in the 'Active surveillance' section. A 'Back' button is at the bottom right.

In the first step, the user can fill in the following:

1. Hospital admission information
2. If there has been a transfer from another hospital, choose the name of the hospital from the list

3. Fill in the information the ICU admission and the date of admission. Only the list of ICU's submitted to the Infection Control Unit Administration will be displayed.
4. If there has been a transfer from another ICU, choose its name from the list.
5. Click next to fill the device information.



Admission to hospital

Health care facility *	Admission Date *
<input type="text" value="Family Care Hospital"/>	<input type="text" value="YYYY/MM/DD"/> 

Action Type	Action Reason *
<input checked="" type="radio" value="Admission to hospital"/> Admission to hospital	<input type="radio" value="Transfer From another hospital"/> Transfer From another hospital

Transfer to ICU

ICU Admission Date *	Action Type
<input type="text" value="YYYY/MM/DD"/> 	<input type="text" value="Admission/ transferee to unit"/>

After completing the first step information, the user clicks next to fill device-related information.

The user fills in the devices that were inserted outside the ICU, as well as the devices that were inserted at the time the patient was admitted to the ICU.

1- Outside the ICU



Devices Association

Do the patient admitted to the ICU with an already inserted device?

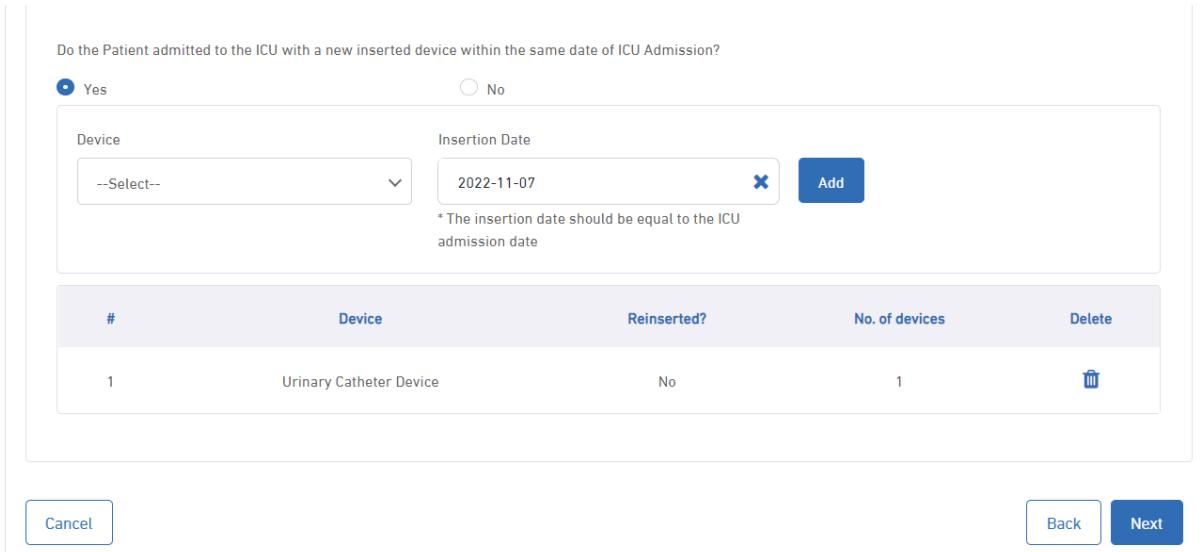
Yes No

Device *	<input type="text" value="--Select--"/> 
----------	---

#	Device	No. of devices	Delete
1	Central Line Device	1	

The device is selected from the drop-down list, then the user clicks the add button, and can remove the device before starting the Surveillance process.

2- Inside the ICU



Do the Patient admitted to the ICU with a new inserted device within the same date of ICU Admission?

Yes No

Device	Insertion Date			
--Select--	2022-11-07	<input type="button" value="X"/>	<input type="button" value="Add"/>	* The insertion date should be equal to the ICU admission date
#	Device	Reinserted?	No. of devices	Delete
1	Urinary Catheter Device	No	1	<input type="button" value="Delete"/>

The user fills in the information of the devices that have been inserted inside the ICU, the device is selected from the drop-down list, and the date of insertion is entered. The date of insertion will be equal to the date of admission to the ICU.

Note: The user can only repeat device entries in the case of Central Line only.

After moving to the next step, this step will be to review the information entered for Surveillance before starting the Surveillance.



Admission to hospital

Health care facility	Admission Date
Family Care Hospital	2022-10-17
Action Type	Action Reason
Admission to hospital	<input checked="" type="radio"/> Admission to hospital <input type="radio"/> Transfer From another hospital

Transfer to ICU

ICU Admission Date	Action Type
2022-11-07	Admission/ transferee to unit
ICU Name	Transferred ICU
Neonatal Intensive Care	—Select—

Devices

Do the patient admitted to the ICU with an already inserted device? **Yes**

#	Device	No. of devices
1	Central Line Device	1

Devices

Do the Patient admitted to the ICU with a new inserted device? **Yes**

#	Device	Reinserted?	No. of devices
1	Urinary Catheter Device	No	1

[Cancel](#)
[Back](#)
[Start Surveillance](#)

By clicking the “Start Surveillance” button, the list of required Surveillance packages will show whether for entering new devices or for follow-up.

Central Line Device

Procedures



3

Bundle Review - Central Line Device - 07/11/2022

Insertion Bundle - Urinary Catheter Device - 07/11/2022

1 to 2

Surveillance is initiated for the patient and the user is redirected to a page for Surveillance the patient and previewing the Surveillance information.

Patient Summary

Patient ID	Patient Name	Phone Number	Gender	Date of Birth	Date of Birth Hijri	Age
1109118313	رهاق محمد ابراهيم العدهشى	536525617	Female	23/09/2000	25/06/1421	22

ICU surveillances SSI Surveillance Dialysis Surveillance MDRO Events Patient History

Active surveillance 1 Required Actions 2 No. of Events 0 There is an already active surveillance, you have to End the surveillance before starting a new one

Surveillance Start Date	Patient ICU Surveillance Days	ICU Name	No. of Events	Require Action?	Details	EOS
07/11/2022	1	Neonatal Intensive Care	-		Details	End of Surveillance

1 to 1

ICU Surveillance Details

The user can view the Surveillance details by clicking the “Details” button, and the Surveillance devices and events, along with Review bundles will be shown. The user will see 3 pages related to Surveillance details.

Health care facility Family Care Hospital	Admission Date 17/10/2022	Action Type Admission to hospital	Action Reason Admission to hospital	Transferred Hospital -
--	------------------------------	--------------------------------------	--	---------------------------

Devices [Devices History](#) [ICU Events](#)

Device Name	Insertion Date	Reinserted?	Device Surveillance Days	Number of Events	Require Action?	Notification	Actions				
Central Line Device	07/11/2022	No	1	0			Bundle Review	New Event	MDRO	Details	
Urinary Catheter Device	07/11/2022	No	1	0			Bundle Review	New Event	MDRO	Details	

1 to 2

[MDRO](#) [New Event](#) [Insert Device](#) [Back](#)

1- Devices

2- Device record: This is the history of the devices used for the patient in the Surveillance in question.

- a. By accessing the device details, the events and packages related to the relevant device can be viewed.

3- ICU events

Device name Central Line Device	Insertion Date 2022-11-07	Device Surveillance Days 1
------------------------------------	------------------------------	-------------------------------

Events & MDRO [Bundles](#)

Type	Creation Date From	Creation Date To	Device association	Search	Reset
No records found					

[Back](#)

SSI Surveillance

On the SSI Surveillance page, the user clicks the “Create Surveillance” button which will redirect them to the Surveillance setup page.

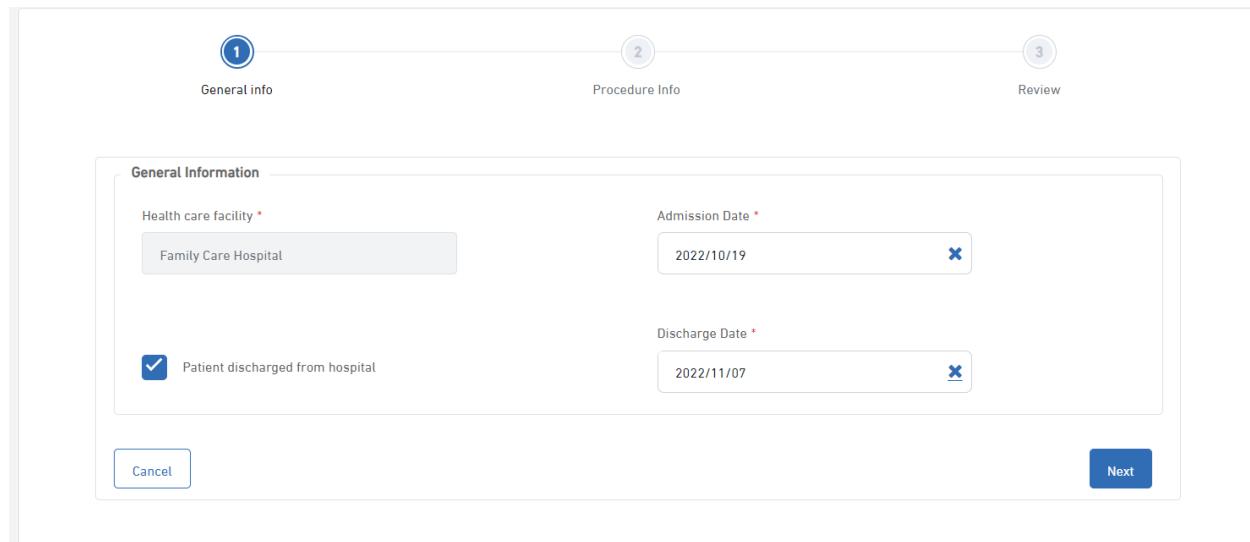
Patient Summary

Patient ID	Patient Name	Phone Number	Gender	Date of Birth	Date of Birth Hijri	Age
1109118313	فهد ابراهيم العتيبي	536525617	Female	23/09/2000	25/06/1421	22

ICU surveillances SSI Surveillance Dialysis Surveillance MDRO Events Patient History

Active surveillance	2	Required Actions	2	No. of Events	1	Start Surveillance
Procedure Name	▼	Surveillance Start Date from	×	Surveillance Start Date to	×	Required actions
Start Surveillance إلاعنة تفاصيل						
Procedure Name	Surveillance Start Date	Surveillance No. of Days	No. of Events	Require Action?	Details	EOS
FX- Open reduction of fracture	19/10/2022	71	1		Details	End of Surveillance
FX- Open reduction of fracture	19/10/2022	71	-		Details	End of Surveillance

The start Surveillance page for SSI will appear and the user fills in the general information, in addition to the operation's information.



1 General info 2 Procedure Info 3 Review

General Information

Health care facility * Admission Date *

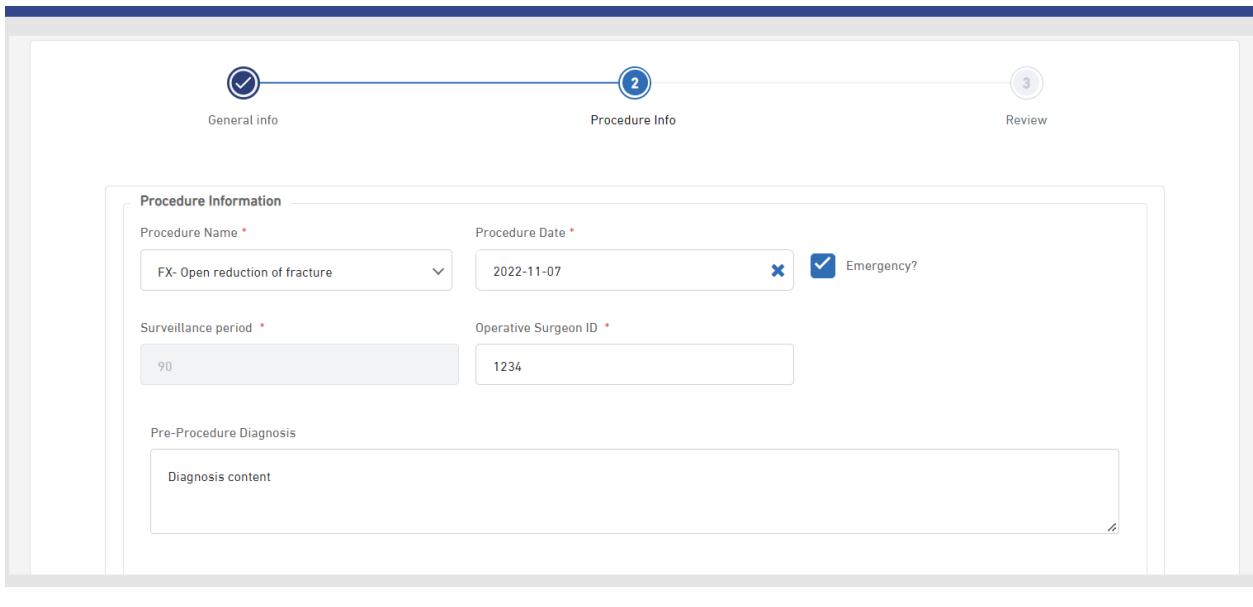
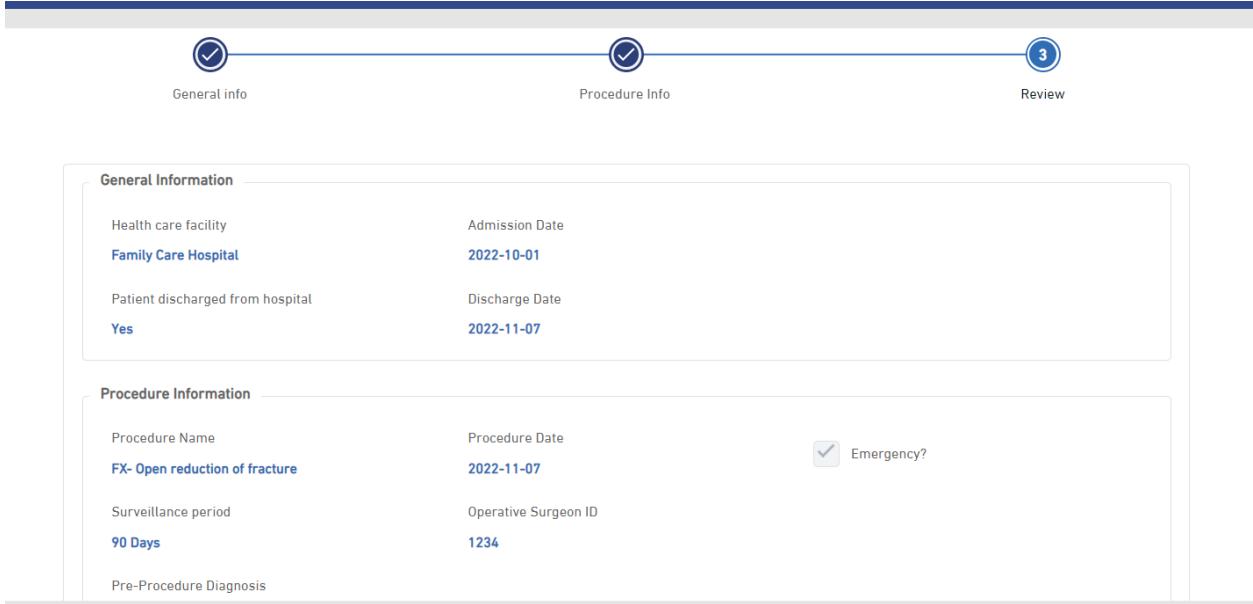
Family Care Hospital 2022/10/19 

Patient discharged from hospital Discharge Date *

2022/11/07 

Cancel **Next**

The second step will be to fill in the operation's information and its date, where the system allows only up to 21 days after the date of the operation. The operation to be monitored is to be selected from the list of operations submitted to the Infection Control Unit Administration.

The final step will be a review step of the entered information before starting the Surveillance. By clicking on the “Start Surveillance” button, the operation will be monitored for the patient, and based on the type of operation, the number of Surveillance days will be determined by the system to be 30 or 90 days.

Patient Summary

Patient ID 1109118313	Patient Name رَفِيقْ مُهَاجِبْ إِبرَاهِيمْ الدَّهْنَسِي	Phone Number 536525617	Gender Female	Date of Birth 23/09/2000	Date of Birth Hijri 25/06/1421	Age 22
--------------------------	--	---------------------------	------------------	-----------------------------	-----------------------------------	-----------

ICU surveillances **SSI Surveillance** Dialysis Surveillance MDRO Events Patient History

Active surveillance 1 Required Actions 1 No. of Events 0 **Start Surveillance**

Procedure Name Surveillance Start Date from Surveillance Start Date to Required actions **Search** **Reset**

Procedure Name	Surveillance Start Date	Surveillance No. of Days	No. of Events	Require Action?	Details	EOS
FX- Open reduction of fracture	04/11/2022	87	-	 1	Details	End of Surveillance

Operations Surveillance Details

By clicking the “Details” button, the user can view the operations Surveillance details. The user will see two pages, a general page for the operation details, and a page for events and precautionary packages created for Surveillance.

العربية 

Procedure Information Events & Bundles

General Information

Health care facility Family Care Hospital	Admission Date 2022-11-03	Patient discharged from hospital Yes	Discharge Date 2022-11-07
--	------------------------------	---	------------------------------

Procedure Information

Procedure Date 2022-11-04	Procedure Name FX- Open reduction of fracture	Surveillance period 90	Emergency? Yes
Pre-Procedure Diagnosis Test	Operative Surgeon ID 1234		

Back

Dialysis Unit Surveillance

On the patient's dialysis unit Surveillance page, the user clicks the “Create Surveillance” button which will redirect them to the dialysis unit Surveillance setup page.

Patient Summary

Patient ID	Patient Name	Phone Number	Gender	Date of Birth	Date of Birth Hijri	Age
1109118313	رهاق فهد ابراهيم الدعاشي	536525617	Female	23/09/2000	25/06/1421	22

ICU surveillances
SSI Surveillance
Dialysis Surveillance
MDRO Events
Patient History

Active surveillance 0
Required Actions 0
No. of Events 0
Start Surveillance

Dialysis session Month	Session Working day	Surveillance Start Date	Surveillance No. of Days	No. of Events	Require Action?	Notification	Details	EOS
There is no surveillance history for this patient								

Back

The dialysis session Surveillance page will appear for the user to fill in the information. The system will only allow the user to record dialysis sessions for the current month, and no retrospective Surveillances can be created.

The user should fill the following:

- 1- Select a day for the dialysis session
- 2- Select the date of the dialysis session. The user can select a session date within the first 7 days of each month.

العربية
Home

Dialysis Session

Health care facility *

Dialysis session Month *

 First Working Day
 Second Working Day

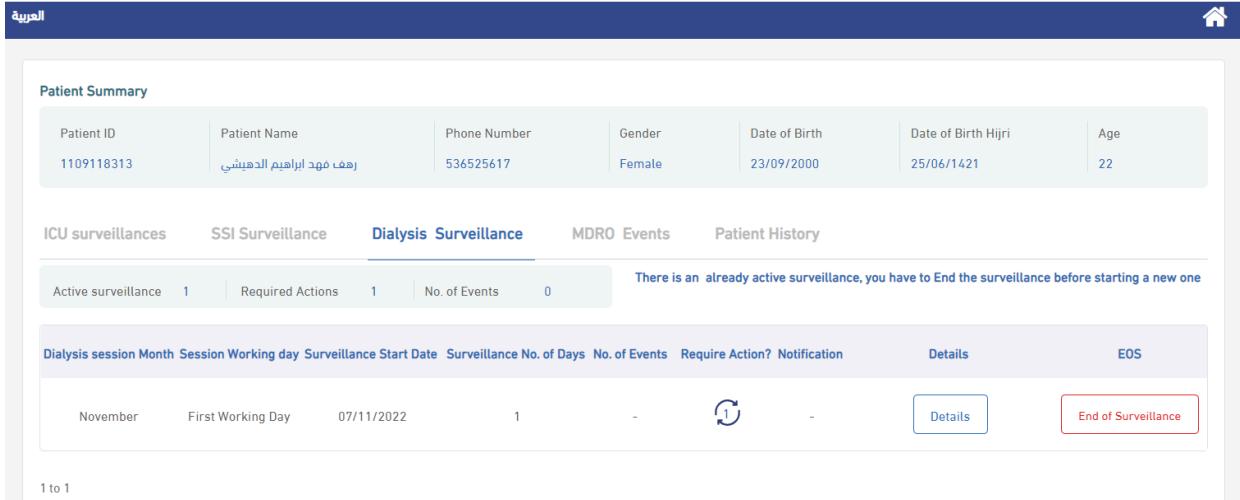
Working day of Dialysis session *

YYYY/MM/DD X

The date when the patient came to the session *

Cancel
Start Surveillance

After filling the information, the user can click the “Start Surveillance” button. The user will be directed to the Surveillance page that has been created, and Surveillance days will be calculated starting from the date entered. A Review bundle will be included by the system under the actions the user is required to perform.

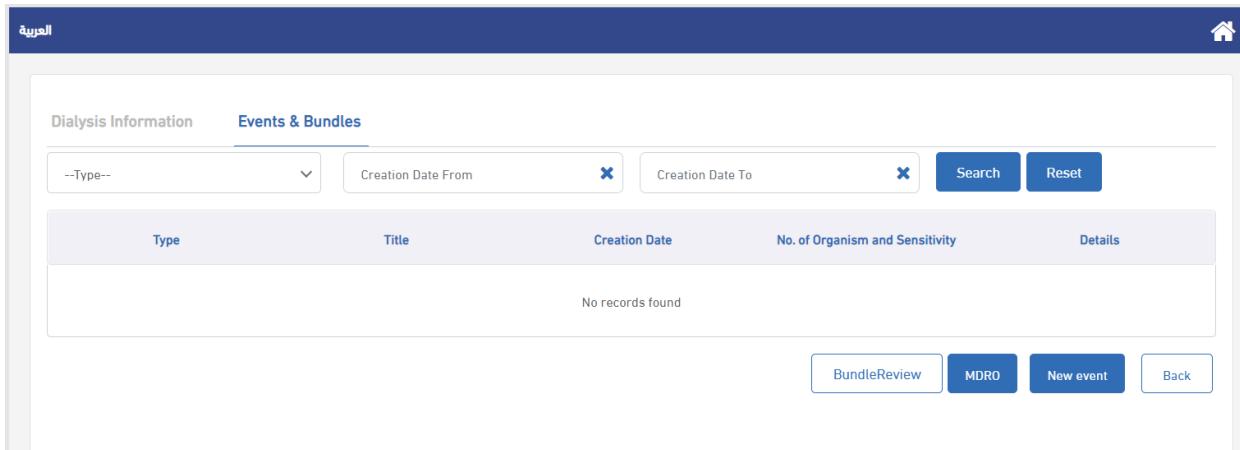


Users can view:

- 1- The number of events created for Surveillance
- 2- The number of actions the user is required to perform, such as: creating a Review bundle
- 3- Alert icon: To remind the user to submit Review bundles
- 4- Details button, through which the user can view Surveillance details and create affiliated events.

Dialysis Unit Surveillance Details

By clicking the “Details” button, the user can view the dialysis session Surveillance details. The user will see two pages, a general page for the dialysis session details, and a page for events and precautionary packages created for Surveillance.



Creating Review Bundles

After creating a Surveillance, the user can create the review bundles for the Surveillances, the ICU, the dialysis session, or the operations.

Review bundles are requested based on:

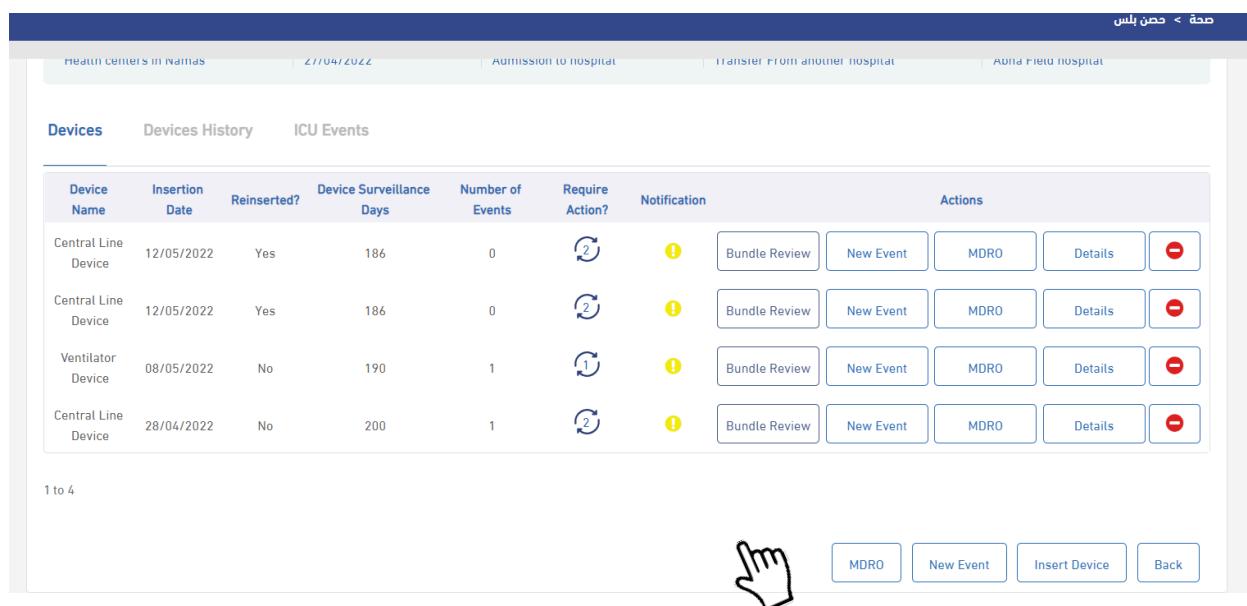
- 1- A Review bundle for each device installed outside the ICU upon commencing the Surveillance.
- 2- A Review bundle after the reminder, for each device installed for the patient, as well as for the ICU Surveillance.
- 3- A Review bundle for all dialysis Surveillance sessions
- 4- A Review bundle for surgical operations Surveillance

If the Review bundles are not filled, they will remain under the “required actions” for Surveillance, and will also be included in the compliance reports of the health facility.

Review Bundle for Surveillance

To create an ICU Review bundle, the user clicks on the "Review bundle" button at the bottom of the page, and they will be redirected to the Review bundle.

To create a Review bundle for a specific device, the user clicks on the "Review bundle" button next to the device in question, and they will be redirected to the Review bundle page for them to fill.



The screenshot shows a software interface for managing medical devices. At the top, there are tabs for 'Health Centers in Names', '27/04/2022', 'Admission to hospital', 'Transfer from another hospital', and 'Alma Field hospital'. Below this, there are three tabs: 'Devices', 'Devices History', and 'ICU Events'. The 'Devices' tab is selected. A table lists four devices:

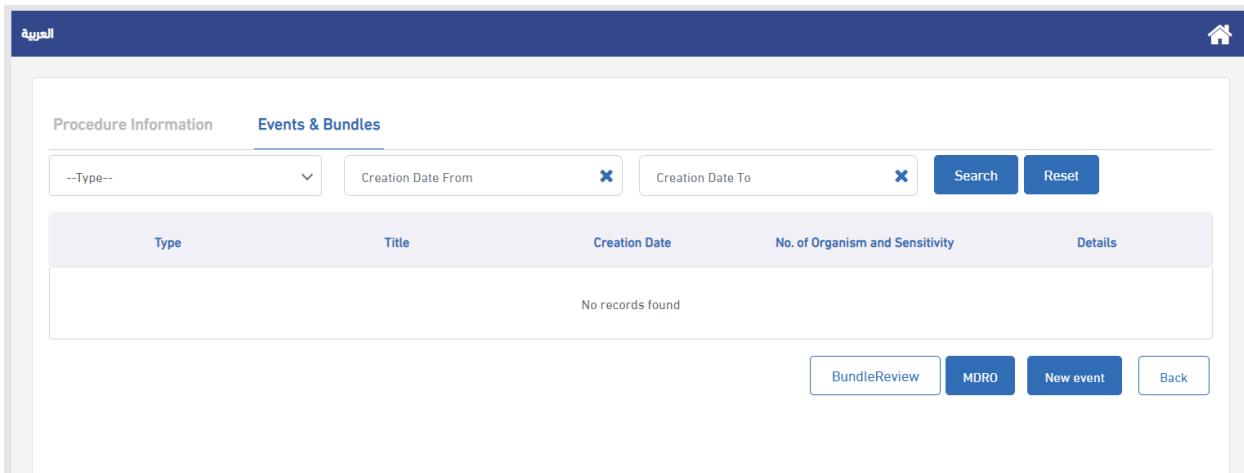
Device Name	Insertion Date	Reinserted?	Device Surveillance Days	Number of Events	Require Action?	Notification	Actions				
Central Line Device	12/05/2022	Yes	186	0	⟳	!	Bundle Review	New Event	MDRO	Details	⊖
Central Line Device	12/05/2022	Yes	186	0	⟳	!	Bundle Review	New Event	MDRO	Details	⊖
Ventilator Device	08/05/2022	No	190	1	⟳	!	Bundle Review	New Event	MDRO	Details	⊖
Central Line Device	28/04/2022	No	200	1	⟳	!	Bundle Review	New Event	MDRO	Details	⊖

At the bottom left, it says '1 to 4'. At the bottom right, there are buttons for 'MDRO', 'New Event', 'Insert Device', and 'Back'. A hand cursor is pointing at the 'Bundle Review' button for the first device.

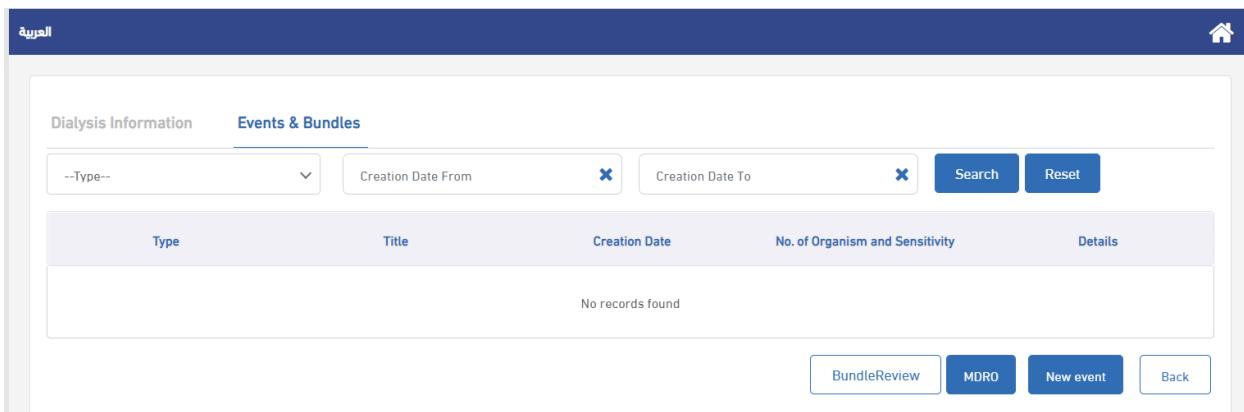
If there is a required action that has not been completed for the Review bundles, the user will see a "Requires Action" column, and the total number of required actions for the device will show.

In the "Alerts" column a reminder appears for the user to create a Review bundle every 3 days, for ICU Surveillances, device Surveillances and dialysis session Surveillances. No reminders will be provided for operations Surveillances.

To create a Review bundle for operations Surveillance, the user can access the operation Surveillance details, and then access the list of events and precautionary packages, and click the "Precautionary Package Follow-up" button.



To create a Review bundle for dialysis session Surveillance, the user can access the session Surveillance details, and then access the list of events and precautionary packages, and click the "Precautionary Package Follow-up" button.



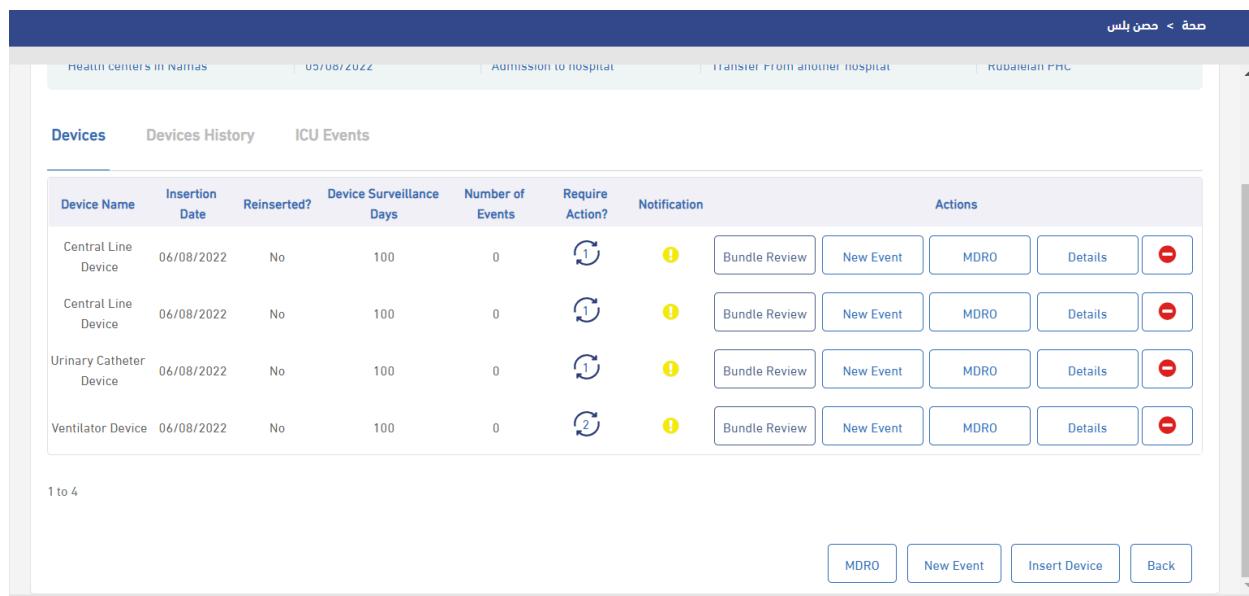
Creating A New Event

After commencing the Surveillance, the user can create the events associated with the Surveillances, which are as follows:

1. Events related to ICU Surveillance
 - a. Event related to devices
 - b. Event not related to devices
2. Events related to operations
3. Events related to the dialysis unit

ICU Surveillance Events

The user can create an ICU event by clicking the “New Event” button.



Device Name	Insertion Date	Reinserted?	Device Surveillance Days	Number of Events	Require Action?	Notification	Actions				
Central Line Device	06/08/2022	No	100	0			Bundle Review	New Event	MDRO	Details	
Central Line Device	06/08/2022	No	100	0			Bundle Review	New Event	MDRO	Details	
Urinary Catheter Device	06/08/2022	No	100	0			Bundle Review	New Event	MDRO	Details	
Ventilator Device	06/08/2022	No	100	0			Bundle Review	New Event	MDRO	Details	

1 to 4

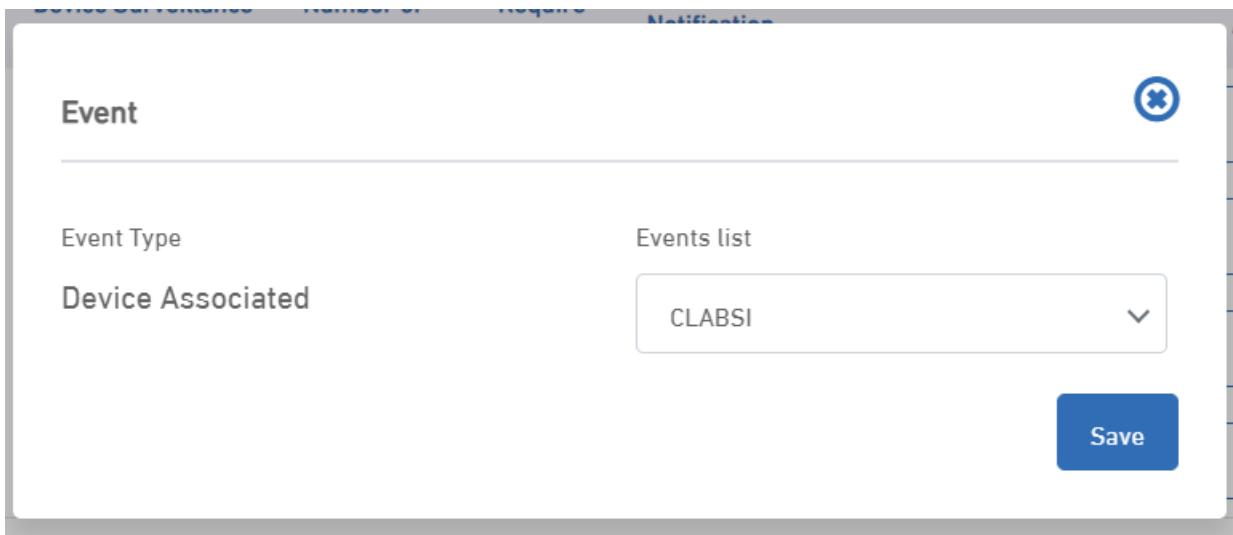
[MDRO](#) [New Event](#) [Insert Device](#) [Back](#)

After creating the event within the first two days from the date of Surveillance the device or the ICU, the event will count as an "Event not related to devices", and the button will be disabled for two calendar days accordingly, until a two-day period from the date of adding the device has elapsed. This is based on the conditions and criteria of the Surveillance Guide provided by the Infection Control Administration at the Ministry of Health.

To create an "Event related to devices", after two calendar days of installing the device for the patient, by clicking the "New Event" button next to the relevant device. A pop-up window will show for the user to select the event classification from the list

of events. By clicking the “Submit” button, the user will be redirected to the event file for them to fill.

In case an “Event related to devices” was created, the button will be disabled for a period of 14 calendar days, based on the conditions and criteria of the Surveillance Guide provided by the Infection Control Administration at the Ministry of Health.



The screenshot shows a user interface for creating a new event. The title bar includes 'Event Details', 'Number of Requests', and 'Notifications'. The main area is titled 'Event' and contains a 'Cancel' button with a blue 'X'. Below this is a horizontal line. To the left of the line is 'Event Type' and to the right is 'Events list'. Under 'Event Type', the text 'Device Associated' is displayed. Under 'Events list', a dropdown menu is open, showing 'CLABSI' as the selected option. In the bottom right corner of the main area is a blue 'Save' button.

If the event type is "MDRO", the user can click "MDRO" button, and fill in the information related to the event, either for the surveillance or for a device.

MDRO

X

MDRO Classification

MDRO Presentation *

Colonization

HealthCare Onset collected >= 4 days...

Others?

MDRO Source *

Colonization

HealthCare Onset collected >= 4 days...

Others?

Health care facility :Health centers in Namas

Cancel
Fill MDRO

SSI Surveillance Events

The user can create an operations Surveillance event by clicking the “New Event” button on the packages and events page.

العربية
Home

Procedure Information
Events & Bundles

--Type--

Creation Date From

Creation Date To

Search

Reset

Type	Title	Creation Date	No. of Organism and Sensitivity	Details
SSI Event	SSI Event Form	13/11/2022	0	Add Organism and Sensitivity Details

1 to 1

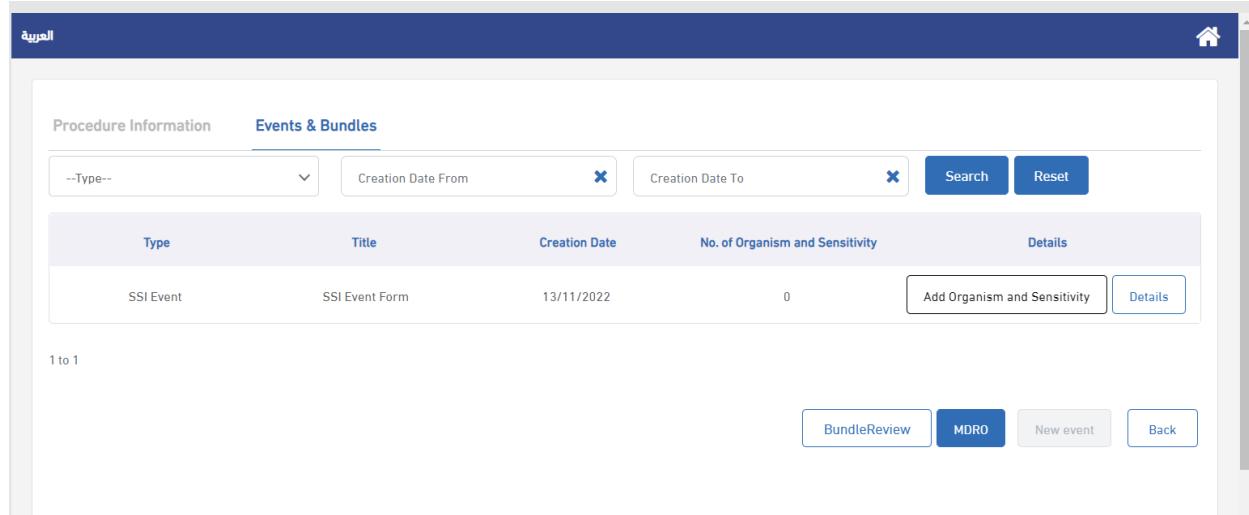
BundleReview
MDRO
New event
Back

After creating the event, the user can click on the “Add Organism and Sensitivity” button for the event every time they wish to add them, and they can view these by

clicking on the number in the Organism and Sensitivity number column. This procedure applies to all events that are created on the system.

Dialysis Surveillance Events

The user can create a dialysis session Surveillance event by clicking the “New Event” button.



Type	Title	Creation Date	No. of Organism and Sensitivity	Details
SSI Event	SSI Event Form	13/11/2022	0	Add Organism and Sensitivity Details

MDRO Events

The user can create MDRO on the level of surveillance or on a specific device by clicking on “MDRO”.

Device Management

The user can view the patient Surveillance devices and keep track of them through the Surveillance devices page, by clicking the “Browse” button for the ICU Surveillance, where the device information will show.

Device Input Package

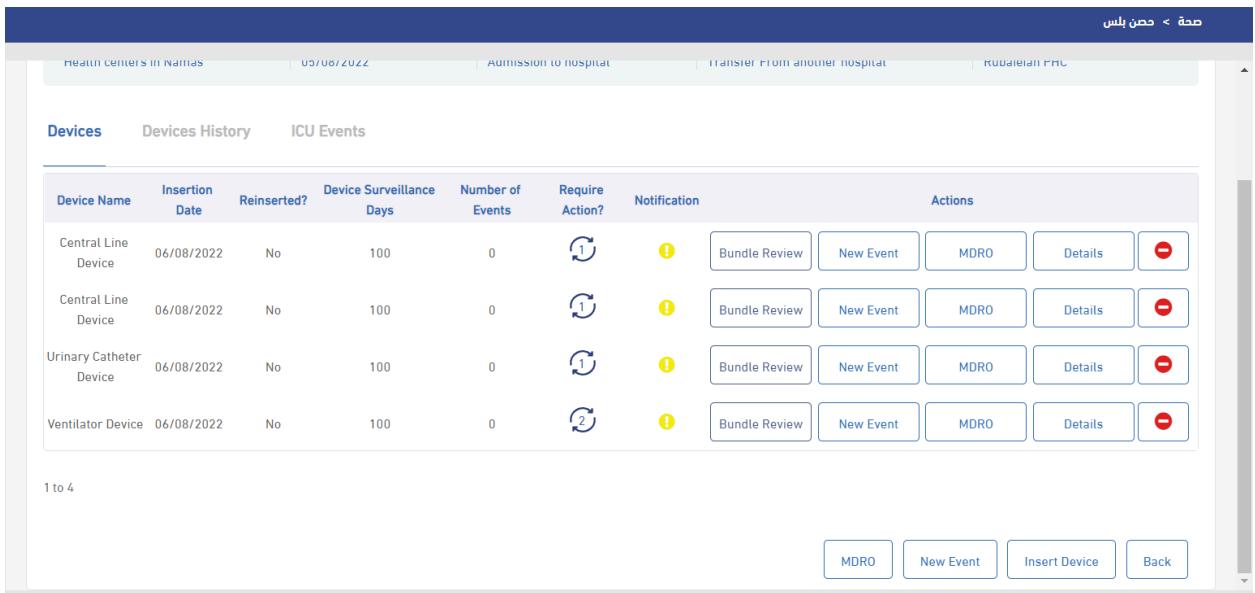
Input packages are requested on the following basis:

1. Input package for each device installed in the ICU upon commencing the Surveillance
2. Input package for each device installed during ICU Surveillance
3. Input package for each device that was re-installed during ICU Surveillance

If the input packages are not filled, they will remain under the “Required Actions” for Surveillance, and will also be included in the compliance reports of the health facility.

Removing A Device

The user can remove the device, by clicking on the remove device icon. No required action related to the device will be canceled, and the actions will remain there until completed under the device record.



The screenshot shows a list of devices in the HESN system. Each device row includes columns for Device Name, Insertion Date, Reinserted?, Device Surveillance Days, Number of Events, Require Action?, and Notification. To the right of each row is a group of buttons labeled 'Actions' containing 'Bundle Review', 'New Event', 'MDRO', 'Details', and a red 'Remove' icon. Below the table, there is a page navigation section showing '1 to 4' and a set of buttons for 'MDRO', 'New Event', 'Insert Device', and 'Back'.

Device Name	Insertion Date	Reinserted?	Device Surveillance Days	Number of Events	Require Action?	Notification	Actions				
Central Line Device	06/08/2022	No	100	0	↻	!	Bundle Review	New Event	MDRO	Details	✖
Central Line Device	06/08/2022	No	100	0	↻	!	Bundle Review	New Event	MDRO	Details	✖
Urinary Catheter Device	06/08/2022	No	100	0	↻	!	Bundle Review	New Event	MDRO	Details	✖
Ventilator Device	06/08/2022	No	100	0	↻	!	Bundle Review	New Event	MDRO	Details	✖

Inserting/ reinserting A Device

To insert a new device, the user clicks the “Insert Device” button, and a pop-up window will show prompting the user to enter the new device information. If the insertion was for a device that was removed, and a calendar day has not yet passed since the removal, the list of removed devices will appear and the user can choose the desired device.

Device *
Insertion Date *
YYYY/MM/DD X
Add

#	Device	No. of devices	Delete
No records found			

Removed devices list, in case of device reinsertion, please select the device

Device name	Insertion Date	Removal Date	Device Surveillance Days	Reinsert
Central Line Device	2022-04-28	2022-11-13	200	+

Save

If the device is new, the day count for the device will start from the first day, and if the insertion was for a previous, the counting will continue from the previously-counted days.

End Surveillance

ICU Surveillance End Surveillance

The user clicks the “End Surveillance” button and a pop-up window will show for them to fill in the Surveillance End information.

Patient Summary

Patient ID	Patient Name	Phone Number	Gender	Date of Birth	Date of Birth Hijri	Age
87654321456	Cleint Cleint	505494099	Male	03/07/2022	04/12/1443	0

ICU surveillances SSI Surveillance Dialysis Surveillance MDRO Events Patient History

Active surveillance 1	Required Actions 5	No. of Events 0	There is an already active surveillance, you have to End the surveillance before starting a new one			
Surveillance Start Date	Patient ICU Surveillance Days	ICU Name	No. of Events	Require Action?	Details	EOS

06/08/2022 100 Medical Surgical -   

1 to 1

The user fills in the required information based on the End reason chosen.

End Of Surveillance

Reasons *

Death Date * **Death Reason ***

Discharge Date *



I am sure of ending the surveillance?

Cancel **End of Surveillance**

SSI Surveillance End

After the 30- or 90-day period of SSI Surveillance has elapsed, Surveillance will be automatically End by the system, unless the user Ends the Surveillance for another

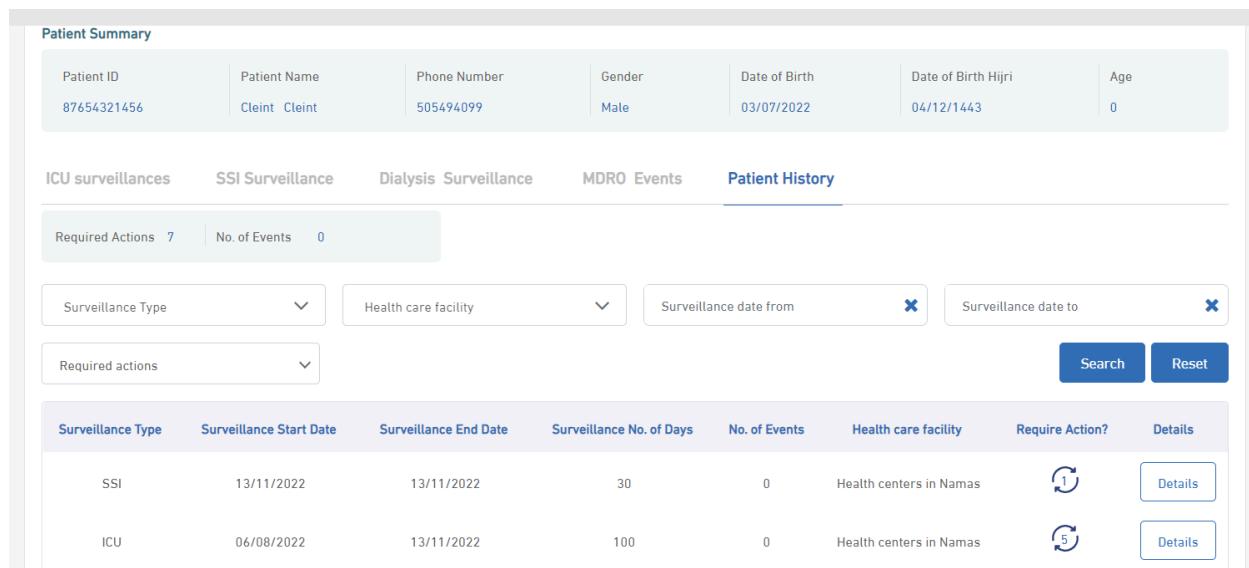
reason before the Surveillance period is over by clicking the “End Surveillance” button and following the steps as explained above under ICU Surveillance End.

Dialysis Session Surveillance End

After the month-period of dialysis session Surveillance has elapsed, Surveillance will be automatically End by the system, unless the user Ends the Surveillance for another reason before the Surveillance period is over by clicking the “End Surveillance” button and following the steps as explained above under ICU Surveillance End.

Patient's Surveillance History

The user can view the patient's Surveillance history at the health facility through the patient history page.



Patient Summary

Patient ID 87654321456	Patient Name Cleint Cleint	Phone Number 505494099	Gender Male	Date of Birth 03/07/2022	Date of Birth Hijri 04/12/1443	Age 0
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ICU surveillances SSI Surveillance Dialysis Surveillance MDRO Events **Patient History**

Required Actions 7 No. of Events 0

Surveillance Type Health care facility Surveillance date from Surveillance date to

Required actions

Patient History

Surveillance Type	Surveillance Start Date	Surveillance End Date	Surveillance No. of Days	No. of Events	Health care facility	Require Action?	Details
SSI	13/11/2022	13/11/2022	30	0	Health centers in Namas		
ICU	06/08/2022	13/11/2022	100	0	Health centers in Namas		